

Constant Voltage Mode

CVH Range	0.000 ~ 600.0	V
CVM Range	0.000 ~ 300.0	V
CVL Range	0.000 ~ 60.00	V
Transient Time Range		
Fast Band(Default,Osc1)	0.500 ~ 51.19	ms
Slow Band(Osc2,Osc3)	0.500 ~ 511.9	ms
Temperature Coefficient	100 ppm / °C of Rated Voltage	
Program		
CV Resolution*2	1/16000 of Rated Voltage	
CVH Accuracy*2	0.05% ± 0.600	V
CVM Accuracy*2	0.05% ± 0.600	V
CVL Accuracy*2	0.05% ± 0.600	V
Display		
CVH Resolution	1/16000 of Rated Voltage	
CVH Accuracy	0.05% ± 0.600	V
CVM Accuracy	0.05% ± 0.600	V
CCL Accuracy	0.05% ± 0.600	V

Constant Current Mode

CCH Range	0.000 ~ 400.0	A
CCM Range	0.000 ~ 200.0	A
CCL Range	0.000 ~ 40.00	A
Transient Time Range		
Fast Band(Default,Osc1)	0.050 ~ 51.19	ms
Slow Band(Osc2,Osc3)	0.500 ~ 511.9	ms
Minimum Voltage(I _{Max})	2.000 V	
Temperature Coefficient	100 ppm / °C of Rated Current	
Program		
CC Resolution*2	1/16000 of Rated Current	
CCH Accuracy*2	0.05% ± 0.400	A
CCM Accuracy*2	0.05% ± 0.400	A
CCL Accuracy*2	0.05% ± 0.400	A
Display		
CC Resolution	1/16000 of Rated Current	
CCH Accuracy	0.05% ± 0.400	A
CCM Accuracy	0.05% ± 0.400	A
CCL Accuracy	0.05% ± 0.400	A

Programmable Protection

Power(OPP)		
Range	27.50 ~ 22,000	W
Resolution	2.750 W	
Accuracy	0.50% ± 55.00 W	
Voltage(OVP)		
Range	0.394 ~ 630.0	V
Resolution	0.039 V	
Accuracy	0.20% ± 0.788 V	
Current(OCP)		
Range	0.263 ~ 420.0	A
Resolution	0.026 A	
Accuracy	0.20% ± 0.525 A	
Under Voltage Lockout(UVL)		
Mode	Input On / Continuous	
Range	0.450 ~ 600.0	V
Resolution	0.150 V	
Accuracy	2.50% ± 0.750 V	
Anti-Oscillation	Default / Osc1 / Osc2 / Osc3 / Disable	

Protection

Over Power Protection(OP)	22,000 ± 419.0	W
Over Voltage Protection(OV)	630.0 ± 12.00	V
Over Current Protection(OC)	440.0 ± 4.190	A
Over Temperature Protection(OTP)	90.00 ± 5.000	°C
Reverse Maximum Current(RCP)	440.0	A
Short Maximum Current	408.0 A	
Remote Inhibit(RI)	Short	
Fault Indicator	SPDT Relay (30Vdc/0.5A or 125Vac/0.25A)	

Dielectric Strength

Primary Circuit To Chassis	1500 Vac for 1 min	
Primary Circuit To Load Terminal	1500 Vac for 1 min	
Load Terminal To Chassis	1500 Vdc for 1 min	

Constant Power Mode

CPH Range	0.000 ~ 20,000	W
CPM Range	0.000 ~ 10,000	W
	@ lin ≤ 200.0	A
CPL Range	0.000 ~ 2,000	W
	@ lin ≤ 40.00	A
Transient Time Range		
Same As CC Mode		
Temperature Coefficient	300 ppm / °C of Rated Power	
Program		
CP Resolution*2	1/16000 of Rated Power	
CPH Accuracy*2	1.00% ± 100.0	W
	@lin > 20.00	A
	& Vin > 60.00	V
CPM Accuracy*2	1.00% ± 100.0	W
	@lin > 4.000	A
	& Vin > 60.00	V
CPL Accuracy*2	1.00% ± 100.0	W
	@lin > 0.400	A
	& Vin > 120.0	V

Constant Resistance Mode

CRH Range	15.00 ~ 750.0	Ω
	@ lin ≤ 40.00	A
CRM Range	1.500 ~ 375.0	Ω
CRL Range	0.0050 ~ 1.500	Ω
Transient Time Range		
CRM / CRH	Same As CC Mode	
CRL	Same As CV Mode	
Temperature Coefficient		
CRM / H	300 ppm / °C of Minimum Resistance	
CRL	300 ppm / °C of Maximum Resistance	
Program		
CR Resolution*2	1/16000 Of Rated Value	
CRH Accuracy*2	1.00% ± 0.333	mS
	@lin > 0.400	A
	& Vin > 120.0	V
CRM Accuracy*2	1.00% ± 1.333	mS
	@lin > 4.000	A
	& Vin > 60.00	V
CRL Accuracy*2	1.00% ± 1.500	mΩ
	@lin > 40.00	A
	& Vin > 0.600	V

External Programming Mode

Analog Program	0~10 Volts Input yields 0~selected full scaled loading in all modes
Accuracy	Same As Internal ± 0.1% Rating
Input Impedance	400 kΩ ± 1%
BandWidth(-3dB)	Limited By Internal Transient Time
Monitor output Signal	0~10 Volts output for 0~full scaled Value
VMON Accuracy	0.10% ± 0.600 V
IMON Accuracy	0.10% ± 0.400 A
Transient Mode	
Frequency Range	0.100 ~ 10,000 Hz
Accuracy	0.1%
Duty Range	1.000 ~ 100.0 %
Accuracy	0.1%
Transient Time Accuracy	10.0% ± 50% of Minimum Time
Remote Interface	GPIOB / RS-232 / ETHERNET / USB

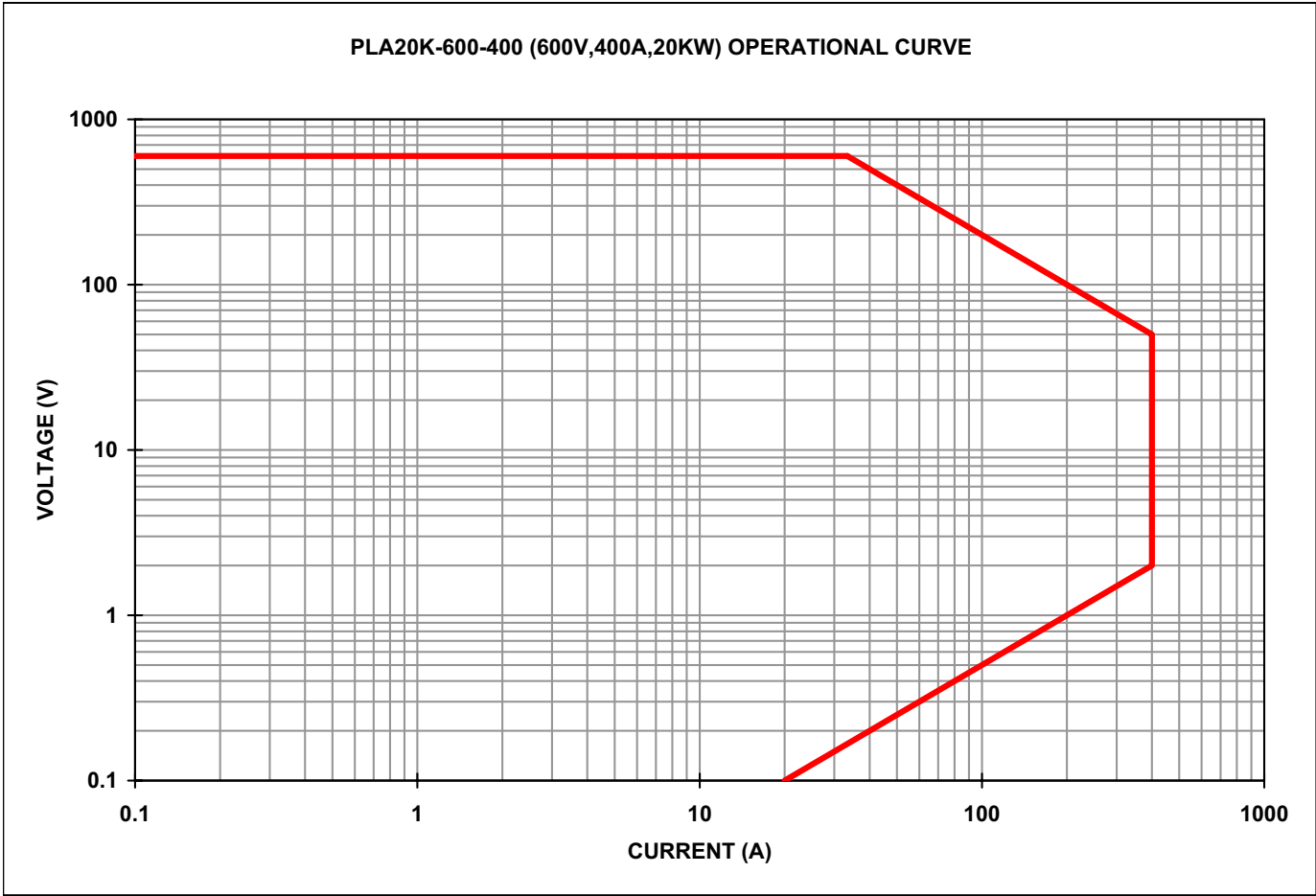
General

Derating for higher temperatures	(-)1.67% Rated Power / °C	
AC Input	95~240 Vac 48~62 Hz	
Power Consumption	630 VA	
Operating Temperature	5 °C ~ 40 °C	
Dimension (Unit)	24.5"(L)x17.0"(W)x10.5"(H)--Two 6U Boxes 24.5"(L)x17.0"(W)x7.0"(H)--One 4U Box	
Dimension with cabinet	38.2"(L)x23.5"(W)x60.5"(H)--30U cabinet	
Weight (Unit)	135 lbs	61.2 kg--Two 6U Boxes
	105 lbs	47.6 kg--One 4U Box
Weight with cabinet	517 lbs	234.5 kg
Approx.Shipping Weight (Unit)	195 lbs	88.5 kg--Two 6U Boxes
	145 lbs	65.8 kg--One 4U Boxes
Approx.Shipping Weight with cabinet	800 lbs	362.9 kg

*1 All Mode Specification measure by slow band and 25°C room temperature unless otherwise specified
*2 Transient Mode Specification must be x2
AMREL reserves the right to change limits, test conditions, and dimensions without notice



PLA20K-600-400 (600V,400A,20KW) OPERATIONAL CURVE



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